TRANSMITTAL LETTER TO	THE UNITED STATES	ATTORNEY'S DOCKET NUMBER		
DESIGNATED/ELECTED		2115D-002504/US/NPB U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		
CONCERNING A SUBMISSION	•	10/553851		
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED		
PCT/US2004/012375	22 April 2004	23 April 2003		
TITLE OF INVENTION INTEGRATED GLOBAL LAYOUT AND LOCAL MICROSTRUCTURE TOPOLOGY OPTIMIZATION APPROACH FOR SPINAL CAGE DESIGN AND FABRICATION				
APPLICANT(S) FOR DO/EO/US				
Applicant horowith submits to the United Sta	Chia Ying Lin et al.	/US) the following items and other information:		
	ns concerning a submission under 35 U	,		
3. This is an express request to begin include items (5), (6), (9) and (21)	n national examination procedures (35 l indicated below.	J.S.C. 371(f)). The submission must		
4. The US has been elected (Article 3				
	ation as filed (35 U.S.C. 371 (c)(2))	·		
a. is attached hereto (required or	nly if not communicated by the Internation	nal Bureau).		
b. has been communicated by the				
	ion was filed in the United States Recei			
6. An English language translation of	f the International Application as filed (3	5 U.S.C. 371(c)(2)).		
a. is attached hereto.				
b. has been previously submitted				
7. Amendments to the claims of the I	International Application under PCT Arti	cle 19 (35 U.S.C. 371(c)(3))		
a. are attached hereto (required o	only if not communicated by the Interna-	tional Bureau).		
b. have been communicated by t	he International Bureau.	·		
c. have not been made; however	r, the time limit for making such amendn	nents has NOT expired.		
d. have not been made and will r	not be made.			
8. An English language translation of	f the amendments to the claims under F	CT Article 19 (35 U.S.C. 371(c)(3)).		
9. x An oath or declaration of the inver	9. x An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).			
An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).				
Items 11 to 20 below concern docu	ment(s) or information included:			
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.				
12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.				
13. A preliminary amendment.				
14. X A Corrected Application Data Sheet under 37 CFR 1.76.				
15. A substitute specification.				
16. A power of attorney and/or change of address letter.				
17, A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.				
18. A second copy of the published International Application under 35 U.S.C. 154(d)(4).				
19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).				
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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/553851		INTERNATIONAL APPLICATION NO. PCT/US2004/012375		ATTORNEY'S DOCKET NUMBER 2115D-002504/US/NPB			
20. x Other items or	informat	Check i Respor Declara Copy o	rate of Express Mailin in the amount of \$65. nse to Notification of lation and Power of At of Notification of Missi Receipt Postcard	5.00 Missing attornev	g Requirements a and Corrected A	and Submission	
The following f	ees have	been submitte	ed			CALCULATIONS	PTO USEONLY
))		\$300	\$	
22. Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report					\$		
23. Search fee (If the written opinion of the IPEA/US indicates Search fee (37 CFR 1.44 International Search International Search Repo	37 CFR 1 e ISA/US o all claims s 5(a)(2)) has ching Autho ort prepared nicated to the	I.492(b)) or the international satisfy provisions is been paid on the orityd by an ISA other the US by the IB	I preliminary examination of PCT Article 33(1)-(4) e international application than the US and provide	n report p	orepared by \$0 JSPTO as an \$100 Office or \$400	\$	
	OF 21, 22					\$ 0.0	o
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.							
Total Sheets Extra S	heets		additional 50 or fraction up to a whole number)	1	RATE		
- 100 =	/50 =	I			x \$250.00	\$	
Surcharge of \$130 for fur after the date of commen			e, examination fee, or the (37 CFR 1.492(h)).	e oath or	declaration	\$ 130.0	0
CLAIMS		MBER FILED	NUMBER EXTRA	<u> </u>	RATE		₁
Total claims		- 20 =		х			
Independent claims		- 3 =		x			
MULTIPLE DEPENDENT	CLAIM(S)) (if applicable)		+	<u>-</u>		
			TOTAL OF A	ABOVE O	CALCULATIONS =	\$ 130.0	0
X Applicant claims					65.0		
					SUBTOTAL =	\$ 65.0	0
Processing fee of \$130.0 claimed priority date (37)	0 for furnist CFR 1.492	ning the English tr (i)).	ranslation later than 30 m	nonths fr	om the earliest	\$	
				TOTAL	NATIONAL FEE =	\$	65.00
	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$			
					· · · · · · · · · · · · · · · · · · ·	\$	
			то	TAL FE	ES ENCLOSED =	\$	65.00
						Amount to be refunded:	\$
						Amount to be charged	\$
PTRAN1 00000101 10	557051						
RTRAN1 00000101 10							
ATRAN1 00000101 10)553851 65.0	0 O P					

a. X A check in the amount of \$ 65.00 to cover the above	ve fees is enclosed.
b. Please charge my Deposit Account No in the amount A duplicate copy of this sheet is enclosed.	ount of \$ to cover the above fees.
C. X The Commissioner is hereby authorized to charge any additional fees of Account No. 08-0750 . A duplicate copy of this sheet	
d. Fees are to be charged to a credit card. WARNING: Information on should not be included on this form. Provide credit card information	this form may become public. Credit card information on and authorization on PTO-2038
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not beer filed an granted to restore the International Application to pending statu	met, a petition to revive (37 CFR 1.137(a) or (b)) must be s.
	A
SEND ALL CORRESPONDENCE TO:	SIGNATURE
Linda M. Deschere	
HARNESS, DICKEY & PIERCE, P.L.C. P. O. Box 828	Linda M. Deschere
Bloomfield Hills, MI 48303 United States of America	NAME
Officed States of America	
CUSTOMER NUMBER: 27572	34,811
	REGISTRATION NUMBER
	Dated: August 7, 2006
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Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. **EV 805 532 325 US** in an envelope addressed to:

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

on	August 7, 2006			
		Date		

Sign	ature
Linda M.	Deschere
Typed or printed name of	person signing Certificate
34,811	(248) 641-1287
Registration Number, if applicable	Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

- 1. Certificate of Express Mailing (Label EV 805 532 325 US);
- 2. Check in the amount of \$65.00;
- 3. Transmittal Letter to the DO/EO/US (3 pages, in duplicate);
- Response to Notification of Missing Requirements Under 35 USC 371 and Submission of Signed Declaration and Power of Attorney and Corrected Application Data Sheet;
- 5. Signed Declarations and Power of Attorney (3 separate Declarations);
- 6. Corrected Application Data Sheet;
- 7. Copy of Notification of Missing Requirements Under 37 USC 371;
- 8. Return Receipt Postcard.

Docket No.: 2115D-002504/US/NPB

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Chia Ying Lin et al.

Application No.: 10/553851

Confirmation No.: 6572

Filed: October 20, 2005

Art Unit: N/A

For: Integrated Global Layout And Local

Microstructure Topology Optimization
Approach For Spinal Cage Design And

Fabrication

Examiner: Not Yet Assigned

AND CORRECTED APPLICATION DATA SHEET RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 USC 371 AND SUBMISSION OF SIGNED DECLARATION AND POWER OF ATTORNEY AND CORRECTED APPLICATION DATA SHEET

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In response to the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office, (copy attached) mailed June 7, 2006, enclosed are three originally signed Declarations and Powers of Attorney signed by each listed Applicant and Inventor.

Also enclosed is a corrected Application Data Sheet that contains the current addresses of the inventors, as noted on the signed Declaration and Power of Attorney documents. Please replace this corrected Application Data Sheet with the ADS as originally filed and update the official records of the United States Patent Office accordingly.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 08-0750, under Order No. 2115D-002504/US/NPB from which the undersigned is authorized to draw.

Dated: August 7, 2006

Respectfully submitted,

Linda M. Deschere

Registration No.: 34,811

HARNESS, DICKEY & PIERCE, P.L.C.

P.O. Box 828

Bloomfield Hills, Michigan 48303

(248) 641-1287

Attorney for Applicant

Missing Requirements

Due: 8-706

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/553.851

Chia Ying Lin

2115D002504/NPB

INTERNATIONAL APPLICATION NO.

PCT/US04/12375

I.A. FILING DATE

PRIORITY DATE

04/22/2004

04/23/2003

CONFIRMATION NO. 6572 371 FORMALITIES LETTER

OC000000019141041

27572 HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 **BLOOMFIELD HILLS, MI 48303**

Date Mailed: 06/07/2006

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 10/20/2005
- Copy of the International Search Report filed on 10/20/2005
- Copy of IPE Report filed on 10/20/2005
- Information Disclosure Statements filed on 10/20/2005
- U.S. Basic National Fees filed on 10/20/2005
- Priority Documents filed on 10/20/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$65 for a Small Entity:

\$65 Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

SHAKEEL AHMED

Telephone: (703) 308-9140 EXT 208

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/553,851	PCT/US04/12375	2115D002504/NPB

FORM PCT/DO/EO/905 (371 Formalities Notice)